



U.S. Department
of Transportation
**Research and
Special Programs
Administration**

400 Seventh St., S.W.
Washington, D.C. 20590

**IAEA CERTIFICATE OF COMPETENT AUTHORITY
SPECIAL FORM RADIOACTIVE MATERIALS
CERTIFICATE NUMBER USA/0683/S, REVISION 0**

This certifies that the source described has been demonstrated to meet the regulatory requirements for special form radioactive material as prescribed in the regulations of the International Atomic Energy Agency¹ and the United States of America² for the transport of radioactive materials.

1. Source Identification - AEA Technology QSA, Inc. Model X1290 (Manufactured on or after November 22, 1995).
2. Source Description - Cylindrical single encapsulation made of stainless steel and tungsten inert gas or laser seal welded. Approximate exterior dimensions are 22.9 mm (0.9 in.) in diameter and 96.5 mm (3.8 in.) in length. Minimum wall thickness is 1.0 mm (0.04 in.). Construction shall be in accordance with attached AEA Technology QSA Inc. Drawing No. RBA62954, Rev. A.
3. Radioactive Contents - No more than 740.0 GBq (20.0 Ci) of Americium-241. The Am-241 is in the form of an oxide mixed with a beryllium powder that is then pressed into a pellet.
4. Quality Assurance - Records of Quality Assurance activities required by Paragraph 310 of the IAEA regulations¹ shall be maintained and made available to the authorized officials for at least three years after the last shipment authorized by this certificate. Consignors and consignees in the United States exporting or importing shipments under this certificate shall satisfy the requirements of Subpart H of 10 CFR 71.
5. Expiration Date - This certificate expires October 31, 2009.

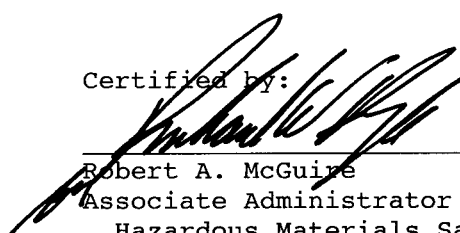
¹ "Regulations for the Safe Transport of Radioactive Material, 1996 Edition (Revised), No. TS-R-1 (ST-1, Revised)," published by the International Atomic Energy Agency (IAEA), Vienna, Austria.

² Title 49, Code of Federal Regulations, Parts 100 - 199, United States of America.

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This certificate is issued in accordance with paragraph 804 of the IAEA Regulations and Section 173.476 of Title 49 of the Code of Federal Regulations, in response to the petition and information dated September 7, 2004 submitted by AEA Technology QSA, Inc., Burlington, MA, and in consideration of other information on file in this Office.

Certified by:



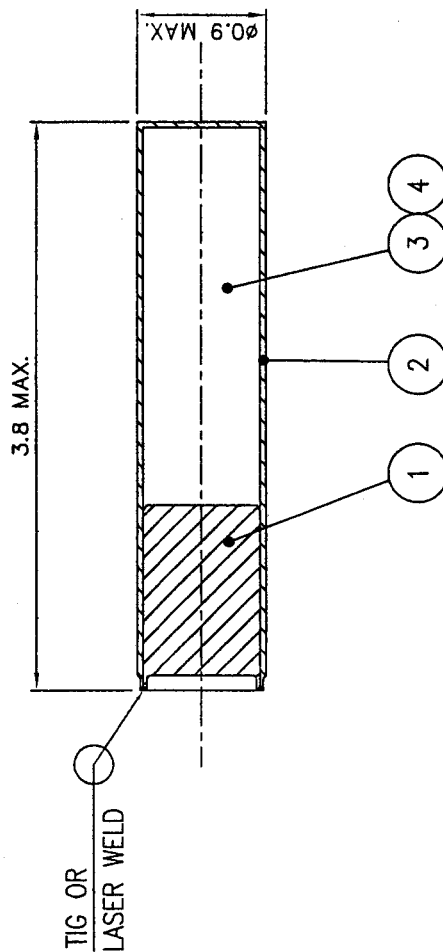
Robert A. McGuire
Associate Administrator for
Hazardous Materials Safety

OCT - 5 2004

(DATE)

Revision 0 - Original issue.


ITEM	DESCRIPTION	QTY
1	LID STAIN. STL	1
2	BODY STAIN. STL	1
3	ACTIVE MATERIAL	A/R
4	CERAMIC FIBRE (OPTIONAL)	A/R



APPROVALS	
<i>R. J. Munn</i>	7 Sep 04
<i>L. P. Chubb</i>	7 Sep 04

DIMENSIONS IN INCHES
 UNLESS OTHERWISE STATED TOLERANCES:
 X ±0.5
 X.X ±0.1
 X.XX ±0.05
 ANGULAR ±5°

INTERNAL	N/
EXTERNAL	N/

	
40 NORTH AVE., BURLINGTON, MA 01803	
DESCRIPTIVE DRAWING	
TITLE X1290 CAPSULE ASSEMBLY	
SIZE	DWG. NO. RBA62954
A	SCALE: NONE
REV	SHEET 1 OF 1
A	A

ERF #	891
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